

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 101563,414  
Source: TFWP  
Date Processed by STIC: 1/13/06

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IFWP

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/563,414

DATE: 01/13/2006

TIME: 10:13:27

Input Set : N:\DA\PTO.DA.txt

Output Set: N:\CRF4\01132006\J563414.raw

3 <110> APPLICANT: BRIAND, JEAN-PAUL  
 4 BOULANGER, PIERRE  
 5 BOULANGER, SAW SEE  
 6 FRENKEL, VALERIE  
 7 GUILLET, JEAN-GERARD  
 8 BLONDEL, ARMEILLE  
 9 LENGAGNE, RENEE  
 11 <120> TITLE OF INVENTION: NOVEL IMMUNE BOOSTER COMPOUND, COMPOSITIONS COMPRISING THE  
 12 SAME AND METHODS USING SAID BOOSTER COMPOUND.  
 14 <130> FILE REFERENCE: CHEP:016US  
 C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/563,414  
 17 <141> CURRENT FILING DATE: 2006-01-03  
 19 <150> PRIOR APPLICATION NUMBER: PCT/FR2004/050308  
 W--> 20 <151> PRIOR FILING DATE: 2004-07-02  
 22 <150> PRIOR APPLICATION NUMBER: FR 03/08239  
 W--> 23 <151> PRIOR FILING DATE: 2003-7-04  
 25 <160> NUMBER OF SEQ ID NOS: 3  
 27 <170> SOFTWARE: PatentIn Ver. 2.1  
 29 <210> SEQ ID NO: 1  
 30 <211> LENGTH: 581  
 31 <212> TYPE: PRT  
 32 <213> ORGANISM: Adenovirus type 5  
 34 <400> SEQUENCE: 1  
 35 Met Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro  
 36 1 5 10 15  
 38 Tyr Asp Thr Glu Thr Gly Pro Pro Thr Val Pro Phe Leu Thr Pro Pro  
 39 20 25 30  
 41 Phe Val Ser Pro Asn Gly Phe Gln Glu Ser Pro Pro Gly Val Leu Ser  
 42 35 40 45  
 44 Leu Arg Leu Ser Glu Pro Leu Val Thr Ser Asn Gly Met Leu Ala Leu  
 45 50 55 60  
 47 Lys Met Gly Asn Gly Leu Ser Leu Asp Glu Ala Gly Asn Leu Thr Ser  
 48 65 70 75 80  
 50 Gln Asn Val Thr Thr Val Ser Pro Pro Leu Lys Lys Thr Lys Ser Asn  
 51 85 90 95  
 53 Ile Asn Leu Glu Ile Ser Ala Pro Leu Thr Val Thr Ser Glu Ala Leu  
 54 100 105 110  
 56 Thr Val Ala Ala Ala Ala Pro Leu Met Val Ala Gly Asn Thr Leu Thr  
 57 115 120 125  
 59 Met Gln Ser Gln Ala Pro Leu Thr Val His Asp Ser Lys Leu Ser Ile  
 60 130 135 140  
 62 Ala Thr Gln Gly Pro Leu Thr Val Ser Glu Gly Lys Leu Ala Leu Gln  
 63 145 150 155 160

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65 Thr Ser Gly Pro Leu Thr Thr Asp Ser Ser Thr Leu Thr Ile Thr  
66 165 170 175  
68 Ala Ser Pro Pro Leu Thr Thr Ala Thr Gly Ser Leu Gly Ile Asp Leu  
69 180 185 190  
72 Lys Glu Pro Ile Tyr Thr Gln Asn Gly Lys Leu Gly Leu Lys Tyr Gly  
73 195 200 205  
75 Ala Pro Leu His Val Thr Asp Asp Leu Asn Thr Leu Thr Val Ala Thr  
76 210 215 220  
78 Gly Pro Gly Val Thr Ile Asn Asn Thr Ser Leu Gln Thr Lys Val Thr  
79 225 230 235 240  
81 Gly Ala Leu Gly Phe Asp Ser Gln Gly Asn Met Gln Leu Asn Val Ala  
82 245 250 255  
84 Gly Gly Leu Arg Ile Asp Ser Gln Asn Arg Arg Leu Ile Leu Asp Val  
85 260 265 270  
87 Ser Tyr Pro Phe Asp Ala Gln Asn Leu Asn Leu Arg Leu Gly Gln  
88 275 280 285  
90 Gly Pro Leu Phe Ile Asn Ser Ala His Asn Leu Asp Ile Asn Tyr Asn  
91 290 295 300  
93 Lys Gly Leu Tyr Leu Phe Thr Ala Ser Asn Asn Ser Lys Lys Leu Glu  
94 305 310 315 320  
96 Val Asn Leu Ser Thr Ala Lys Gly Leu Met Phe Asp Ala Thr Ala Ile  
97 325 330 335  
99 Ala Ile Asn Ala Gly Asp Gly Leu Glu Phe Gly Ser Leu Asn Ala Pro  
100 340 345 350  
102 Asn Ser Asn Pro Leu Lys Thr Lys Ile Gly His Gly Leu Glu Phe Asp  
103 355 360 365  
105 Ser Asn Lys Ala Met Val Pro Lys Leu Gly Thr Gly Leu Ser Phe Asp  
106 370 375 380  
108 Ser Thr Gly Ala Ile Thr Val Gly Asn Lys Asn Asn Asp Lys Leu Thr  
109 385 390 395 400  
111 Leu Trp Thr Thr Pro Ala Pro Ser Pro Asn Cys Arg Leu Asn Ala Glu  
112 405 410 415  
114 Lys Asp Ala Lys Leu Thr Leu Val Leu Thr Lys Cys Gly Ser Gln Ile  
115 420 425 430  
117 Leu Ala Thr Val Ser Val Leu Ala Val Lys Gly Ser Leu Ala Pro Ile  
118 435 440 445  
120 Ser Gly Thr Val Gln Ser Ala His Leu Ile Ile Arg Phe Asp Glu Asn  
121 450 455 460  
123 Gly Val Leu Leu Asn Asn Ser Phe Leu Asp Pro Glu Tyr Trp Asn Phe  
124 465 470 475 480  
126 Arg Asn Gly Asp Leu Thr Glu Gly Thr Ala Tyr Thr Asn Ala Val Gly  
127 485 490 495  
129 Phe Met Pro Asn Leu Ser Ala Tyr Pro Lys Ser His Gly Lys Thr Ala  
130 500 505 510  
132 Lys Ser Asn Ile Val Ser Gln Val Tyr Leu Asn Gly Asp Lys Thr Lys  
133 515 520 525  
135 Pro Val Thr Leu Thr Ile Thr Leu Asn Gly Thr Gln Glu Thr Gly Asp  
136 530 535 540  
138 Thr Thr Pro Ser Ala Tyr Ser Met Ser Phe Ser Trp Asp Trp Ser Gly

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139 545 550 555 560  
 141 His Asn Tyr Ile Asn Glu Ile Phe Ala Thr Ser Ser Tyr Thr Phe Ser  
 142 565 570 575  
 144 Tyr Ile Ala Gln Glu  
 145 580  
 148 <210> SEQ ID NO: 2  
 149 <211> LENGTH: 319  
 150 <212> TYPE: PRT  
 151 <213> ORGANISM: Adenovirus type 3  
 153 <400> SEQUENCE: 2  
 154 Met Ala Lys Arg Ala Arg Leu Ser Thr Ser Phe Asn Pro Val Tyr Pro  
 155 1 5 10 15  
 157 Tyr Glu Asp Glu Ser Asn Leu Gln His Pro Phe Ile Asn Pro Gly Phe  
 158 20 25 30  
 160 Ile Ser Pro Asp Gly Phe Thr Gln Ser Pro Asn Gly Val Leu Ser Leu  
 161 35 40 45  
 163 Lys Cys Val Asn Pro Leu Thr Thr Ala Ser Gly Ser Leu Gln Leu Lys  
 164 50 55 60  
 166 Val Gly Ser Gly Leu Thr Val Asn Thr Thr Asp Gly Ser Leu Glu Glu  
 167 65 70 75 80  
 169 Asn Ile Lys Val Asn Thr Pro Leu Thr Lys Ser Asn His Ser Ile Asn  
 170 85 90 95  
 172 Leu Pro Ile Gly Asn Gly Leu Gln Ile Glu Gln Asn Lys Leu Cys Ser  
 173 100 105 110  
 175 Lys Leu Gly Asn Gly Leu Thr Phe Asp Ser Ser Asn Ser Ile Ala Leu  
 176 115 120 125  
 178 Lys Asn Asn Thr Leu Trp Thr Gly Pro Lys Pro Glu Ala Asn Cys Ile  
 179 130 135 140  
 181 Ile Glu Tyr Gly Lys Glu Asn Pro Asp Ser Lys Leu Thr Leu Ile Leu  
 182 145 150 155 160  
 184 Val Lys Asn Gly Ile Val Asn Gly Tyr Val Thr Leu Met Gly Ala  
 185 165 170 175  
 187 Ser Asp Tyr Val Asn Thr Leu Phe Lys Asn Lys Asn Val Ser Ile Asn  
 188 180 185 190  
 190 Val Glu Leu Tyr Phe Asp Ala Thr Gly His Ile Leu Pro Asp Leu Ser  
 191 195 200 205  
 193 Ser Leu Lys Thr Asp Leu Gln Leu Lys Tyr Lys Gln Thr Thr His Phe  
 194 210 215 220  
 196 Ser Ala Arg Gly Phe Met Pro Ser Thr Thr Ala Tyr Pro Phe Val Leu  
 197 225 230 235 240  
 199 Pro Asn Ala Gly Thr Asp Asn Glu Asn Tyr Ile Phe Gly Gln Cys Tyr  
 200 245 250 255  
 202 Tyr Lys Ala Ser Asp Gly Ala Leu Phe Pro Leu Glu Val Thr Val Thr  
 203 260 265 270  
 205 Leu Asn Lys Arg Leu Pro Asp Ser Arg Thr Ser Tyr Val Met Thr Phe  
 206 275 280 285  
 208 Leu Trp Ser Leu Asn Ala Gly Leu Ala Pro Glu Thr Thr Gln Ala Thr  
 209 290 295 300  
 211 Leu Ile Thr Ser Pro Phe Thr Phe Ser Tyr Ile Arg Glu Asp Asp

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212 305 310 315  
 215 <210> SEQ ID NO: 3  
 216 <211> LENGTH: 587  
 217 <212> TYPE: PRT  
 218 <213> ORGANISM: Adenovirus type 12  
 220 <400> SEQUENCE: 3  
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 222 1 5 10 15  
 224 Asp Phe Asn Pro Val Tyr Pro Phe Asp Pro Phe Asp Thr Ser Asp Val  
 225 20 25 30  
 227 Pro Phe Val Thr Pro Pro Phe Thr Ser Ser Asn Gly Leu Gln Glu Lys  
 228 35 40 45  
 230 Pro Pro Gly Val Leu Ala Leu Asn Tyr Lys Asp Pro Ile Val Thr Glu  
 231 50 55 60  
 233 Asn Gly Thr Leu Thr Leu Lys Leu Gly Asp Gly Ile Lys Leu Asn Ala  
 234 65 70 75 80  
 236 Gln Gly Gln Leu Thr Ala Ser Asn Asn Ile Asn Val Leu Glu Pro Leu  
 237 85 90 95  
 239 Thr Asn Thr Ser Gln Gly Leu Lys Leu Ser Trp Ser Ala Pro Leu Ala  
 240 100 105 110  
 242 Val Lys Ala Ser Ala Leu Thr Leu Asn Thr Arg Ala Pro Leu Thr Thr  
 243 115 120 125  
 245 Thr Asp Glu Ser Leu Ala Leu Ile Thr Ala Pro Pro Ile Thr Val Glu  
 246 130 135 140  
 248 Ser Ser Arg Leu Gly Leu Ala Thr Ile Ala Pro Leu Ser Leu Asp Gly  
 249 145 150 155 160  
 251 Gly Gly Asn Leu Gly Leu Asn Leu Ser Ala Pro Leu Asp Val Ser Asn  
 252 165 170 175  
 254 Asn Asn Leu His Leu Thr Thr Glu Thr Pro Leu Val Val Asn Ser Ser  
 255 180 185 190  
 257 Gly Ala Leu Ser Val Ala Thr Ala Asp Pro Ile Ser Val Arg Asn Asn  
 258 195 200 205  
 260 Ala Leu Thr Leu Pro Thr Ala Asp Pro Leu Met Val Ser Ser Asp Gly  
 261 210 215 220  
 263 Leu Gly Ile Ser Val Thr Ser Pro Ile Thr Val Ile Asn Gly Ser Leu  
 264 225 230 235 240  
 266 Ala Leu Ser Thr Thr Ala Pro Leu Asn Ser Thr Gly Ser Thr Leu Ser  
 267 245 250 255  
 269 Leu Ser Val Ala Asn Pro Leu Thr Ile Ser Gln Asp Thr Leu Thr Val  
 270 260 265 270  
 272 Ser Thr Gly Asn Gly Leu Gln Val Ser Gly Ser Gln Leu Val Thr Arg  
 273 275 280 285  
 275 Ile Gly Asp Gly Leu Thr Phe Asp Asn Gly Val Met Lys Val Asn Val  
 276 290 295 300  
 278 Ala Gly Gly Met Arg Thr Ser Gly Gly Arg Ile Ile Leu Asp Val Asn  
 279 305 310 315 320  
 281 Tyr Pro Phe Asp Ala Ser Asn Asn Leu Ser Leu Arg Arg Gly Leu Gly  
 282 325 330 335  
 284 Leu Ile Tyr Asn Gln Ser Thr Asn Trp Asn Leu Thr Thr Asp Ile Ser

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285 340 345 350  
287 Thr Glu Lys Gly Leu Met Phe Ser Gly Asn Gln Ile Ala Leu Asn Ala  
288 355 360 365  
290 Gly Gln Gly Leu Thr Phe Asn Asn Gly Gln Leu Arg Val Lys Leu Gly  
291 370 375 380  
293 Ala Gly Leu Ile Phe Asp Ser Asn Asn Ile Ala Leu Gly Ser Ser  
294 385 390 395 400  
296 Ser Asn Thr Pro Tyr Asp Pro Leu Thr Leu Trp Thr Thr Pro Asp Pro  
297 405 410 415  
299 Pro Pro Asn Cys Ser Leu Ile Gln Glu Leu Asp Ala Lys Leu Thr Leu  
300 420 425 430  
302 Cys Leu Thr Lys Asn Gly Ser Ile Val Asn Gly Ile Val Ser Leu Val  
303 435 440 445  
305 Gly Val Lys Gly Asn Leu Leu Asn Ile Gln Ser Thr Thr Thr Thr Val  
306 450 455 460  
308 Gly Val His Leu Val Phe Asp Glu Gln Gly Arg Leu Ile Thr Ser Thr  
309 465 470 475 480  
312 Pro Thr Ala Leu Val Pro Gln Ala Ser Trp Gly Tyr Arg Gln Gln  
313 485 490 495  
315 Ser Val Ser Thr Asn Thr Val Thr Asn Gly Leu Gly Phe Met Pro Asn  
316 500 505 510  
318 Val Ser Ala Tyr Pro Arg Pro Asn Ala Ser Glu Ala Lys Ser Gln Met  
319 515 520 525  
321 Val Ser Leu Thr Tyr Leu Gln Gly Asp Thr Ser Lys Pro Ile Thr Met  
322 530 535 540  
324 Lys Val Ala Phe Asn Gly Ile Thr Ser Leu Asn Gly Tyr Ser Leu Thr  
325 545 550 555 560  
327 Phe Met Trp Ser Gly Leu Ser Asn Tyr Ile Asn Gln Pro Phe Ser Thr  
328 565 570 575  
330 Pro Ser Cys Ser Phe Ser Tyr Ile Thr Gln Glu  
331 580 585

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/563,414

DATE: 01/13/2006

TIME: 10:13:28

Input Set : N:\DA\PTO.DA.txt

Output Set: N:\CRF4\01132006\J563414.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application Number

L:20 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD

L:23 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD